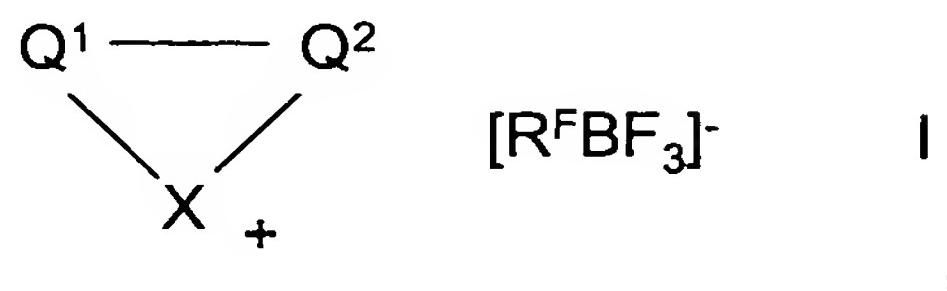


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Compounds of the formula I



in which

X denotes NR¹ or N(R¹)₂,

-Q¹-Q²- denotes -CHR³-CHR⁴-CHR⁵-CHR⁶,

-CR²=CR³-CR⁴=CR⁵-CR⁶= or

-CR⁷=CR⁸-NR¹⁰-CR⁹=,

R¹ in each case, independently of one another, denotes alkyl having 1-10 C atoms or -(CH₂)-R¹¹,

R²-R⁶ denote hydrogen or alkyl having 1-10 C atoms,

R⁷-R⁹ denote hydrogen, alkyl having 1-10 C atoms or aryl,

R¹⁰ denotes alkyl having 2-8 C atoms or -(CH₂)-R¹¹,

R¹¹ denotes perfluorinated or partially fluorinated alkyl having 1-8 C atoms,

R^F denotes perfluorinated alkyl having 2-8 C atoms, and

aryl denotes phenyl, perfluorinated phenyl, or phenyl or perfluorinated phenyl which is substituted by alkyl having 1-8 C atoms,

where the compounds

1-methyl-3-ethylimidazolium pentafluoroethyltrifluoroborate, 1-methyl-3-ethylimidazolium (n-heptafluoropropyl)trifluoroborate and 1-methyl-3-ethylimidazolium (n-nonafluorobutyl)trifluoroborate are excluded.

2. (Original) Compounds according to Claim 1, characterised in that -Q¹-Q²- denotes -CHR³-CHR⁴-CHR⁵-CHR⁶.

3. (Currently Amended) Compounds according to Claim 1 or 2, characterised in

that the substituents R¹ are different.

4. (Original) Compounds according to Claim 1, characterised in that -Q¹-Q²- denotes -CR²=CR³-CR⁴=CR⁵-CR⁶=.
5. (Original) Compounds according to Claim 1, characterised in that -Q¹-Q²- denotes -CR⁷=CR⁸-NR¹⁰-CR⁹=.
6. (Currently Amended) Compounds according to Claim 1 ~~or 5~~, characterised in that the substituents R¹ and R¹⁰ in the formula I are different.
7. (Currently Amended) Compounds according to ~~one or more of Claims 1 to 6~~ claim 1, characterised in that R^F denotes perfluoroethyl, perfluoropropyl or perfluorobutyl.
8. (Original) Compounds according to Claim 1:
N-methyl-N-butylpyrrolidinium pentafluoroethyltrifluoroborate,
N-methyl-N-hexylpyrrolidinium pentafluoroethyltrifluoroborate,
N-methyl-N-octylpyrrolidinium pentafluoroethyltrifluoroborate,
1-methyl-3-butylimidazolium pentafluoroethyltrifluoroborate,
1-methyl-3-hexylimidazolium pentafluoroethyltrifluoroborate,
or 1,2-dimethyl-3-butylimidazolium pentafluoroethyltrifluoroborate.
9. (Currently Amended) Process for the preparation of compounds according to ~~one or more of Claims 1 to 8~~ claim 1, characterised in that in the first step, a compound of the formula II
$$(R^F)_3P=NSi(R^{12})_3 \quad II,$$
in which R^F in each case, independently of one another, denotes perfluorinated alkyl having 2-8 C atoms, and R¹² in each case, independently of one another, denotes alkyl having 1-8 C atoms,

alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl,

is reacted with a fluoride of the formula III



in which

M is ammonium, alkali metal or alkaline earth metal or a metal from group 11 or 12,

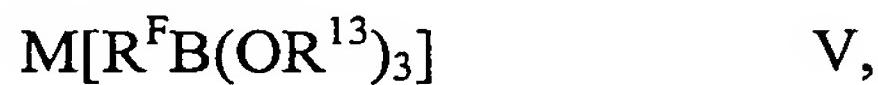
and a boric acid ester of the formula IV



in which

R^{13} in each case, independently of one another, denotes alkyl having 1-8 C atoms or aryl,

and the resultant salt of the formula V



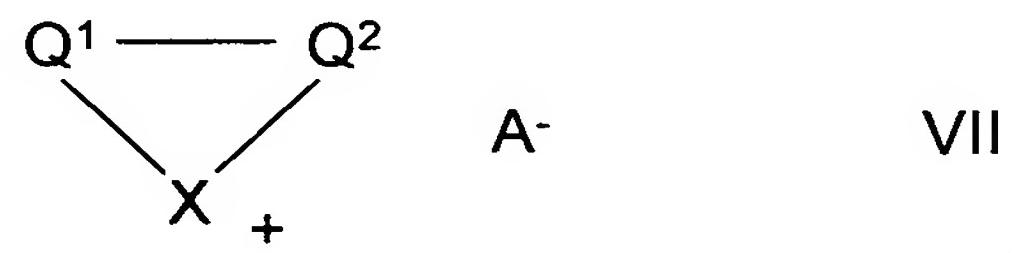
in which M, R^F and R^{13} have one of the above-mentioned meanings,
is reacted, in the second step, with HF,

and the resultant salt of the formula VI



in which R^F is as defined above,

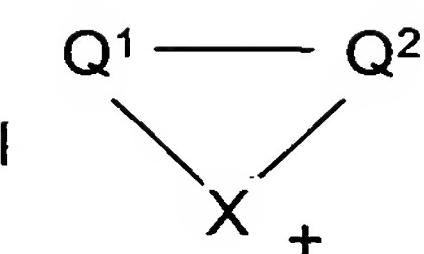
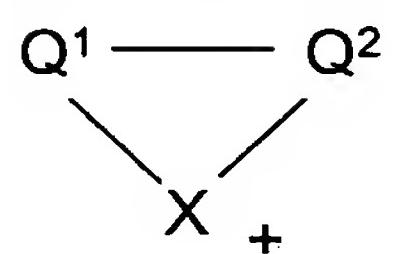
is reacted, in the third step, with a compound of the formula VII



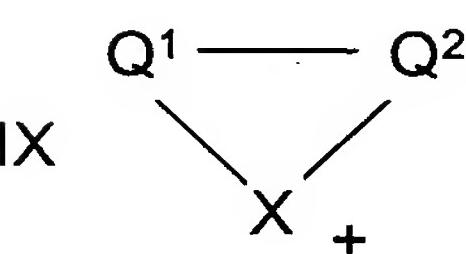
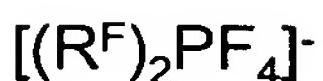
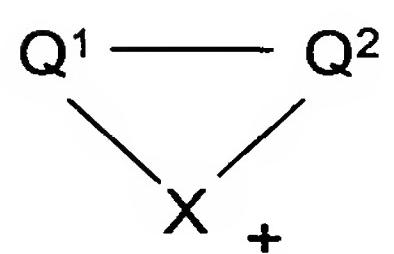
in which X and $-Q^1-Q^2-$ are as defined for the formula I in Claims 1 to 6, and
 A^- denotes alkylsulfate, alkylsulfonate, trifluoromethanesulfonate, tetrafluoroborate, acetate, trifluoroacetate, bis(perfluoroalkyl)phosphinate, F^- , HF_2^- , Cl^- , Br^- or Γ^- .

10. (Currently Amended) Mixture of the salts of the formula I with salts of the

formulae VIII, IX and X.



VIII



X

,

,

where

X, -Q¹-Q²- and R^F have the meaning indicated in Claim 1 or in ~~Claims 2 to 7~~.

11. (Currently Amended) Mixture according to Claim 10, characterised in that it comprises 50-75 mol% of compounds of the formula I and 25-50 mol% of compounds of the formulae VIII, IX and/or X, where X, -Q¹-Q²- and R^F have the meaning indicated in Claim 1 or in ~~Claims 2 to 7~~ denotes perfluorinated alkyl having 2-8 C atoms.
12. (Currently Amended) Use of the compounds according to ~~one or more of Claims 1-8~~ Claim 1 as ionic liquids.
13. (Currently Amended) Use of the mixture according to Claim 10 or ~~11~~ as ionic liquid.
14. (Original) Compounds of the formula II
$$(R^F)_3P=NSi(R^{12})_3$$
 II,
in which
R^F in each case, independently of one another, denotes perfluorinated alkyl having 1-8 C atoms, and
R¹² in each case, independently of one another, denotes alkyl having 1-8 C atoms, alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl.

15. (Original) Compounds according to Claim 14, characterised in that R^F denotes

perfluorinated C₁-C₄-alkyl.

16. (Currently Amended) Compounds according to Claim 14 or 15, characterised in that all three substituents R^F are identical.
17. (Currently Amended) Compounds according to one or more of Claims 14 to 16 Claim 14, characterised in that R¹² in each case, independently of one another, denotes alkyl having 1-8 C atoms.
18. (Currently Amended) Use of the compounds of Claims 14 to 17 Claim 14 as alkylating reagents.